

Pediatric Quality Indicator 08 (PDI 08) Perioperative Hemorrhage or Hematoma Rate

August 2017 Provider-Level Indicator Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality U.S. Department of Health and Human Services www.qualityindicators.ahrq.gov

DESCRIPTION

Perioperative hemorrhage or hematoma cases with control of perioperative hemorrhage or drainage of hematoma following surgery per 1,000 elective surgical discharges for patients ages 17 years and younger. Includes metrics for discharges grouped by high and low risk. Excludes cases with a diagnosis of coagulation disorder; cases with a principal diagnosis of perioperative hemorrhage or hematoma; cases with a secondary diagnosis of perioperative hemorrhage or hematoma present on admission; cases where the only operating room procedure is control of perioperative hemorrhage, drainage of hematoma, or a miscellaneous hemorrhage- or hematoma-related procedure; obstetric cases; and neonates with birth weight less than 500 grams.

[NOTE: The software provides the rate per hospital discharge. However, common practice reports the measure as per 1,000 discharges. The user must multiply the rate obtained from the software by 1,000 to report events per 1,000 hospital discharges.]

NUMERATOR

Discharges, among cases meeting the inclusion and exclusion rules for the denominator, with any secondary ICD-9-CM diagnosis codes for perioperative hemorrhage or hematoma and any-listed ICD-9-CM procedure codes for treatment of hemorrhage or hematomaa.

Note: The Numerator definition is identical for high-risk and low-risk categories and overall.

Perioperative hemorrhage or hematoma diagnosis codes: (POHMRI2D)

99811	Hemorrhage Complicating A	99812	Hematoma Complicating A Procedure
	Procedure		

Control of perioperative hemorrhage and evacuation of hematoma procedure codes: (HEMOTH2P)

0131 Incision Of Cerebral Meninges 4223 Other Esophagoscopy 0139 Other Incision Of Brain 4233 Endoscopic Excision Or Destruction Of Lesion Or Tissue Of 0213 Ligation Of Meningeal Vessel 4239 Other Destruction Of Lesion Or Tissue Of Esophagus 0239 Other Operations To Establish Drainage Of Ventricle 4291 Ligation Of Esophageal Varices 0241 Irrigation And Exploration Of Ventricular Shunt 430 Gastrotomy 0309 Other Exploration And Optomation Of Decompression Of Spinal Canal 4341 Endoscopic Excision Or Destruction Of Lesion Or Tissue Of Other Incision Of Thyroid Field 0602 Reopening Of Wound Of Thyroid 4413 Other Gastroscopy Field Suture Peptic Ulcer Nos 0609 Other Incision Of Thyroid Field 4440 Suture Peptic Ulcer Nos 0692 Ligation Of Thyroid Vessels 4441 Sut Gastric Ulcer Site 0700 Adrenal Exploration Nos 4442 Suture Duoden Ulcer Site 0701 Unilat Adrenal Explorat 4443 Endosc Control Gast Hem 0743 Ligation Of Adrenal Vessels 4444 Transcath Embo Gast Hem 0751 Exploration Of Pineal Field 4491 <th>0124</th> <th>Other Craniotomy</th> <th>3998</th> <th>Control Of Hemorrhage Nos</th>	0124	Other Craniotomy	3998	Control Of Hemorrhage Nos
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2100 Control Of Epistaxis, Not Otherwise 4523 Colonoscopy	1809	Other Incision Of External Ear	4516	Esophagogastroduodenoscopy (egd)
1 ,				With Closed Biopsy
Specified	2100	<u>-</u>	4523	Colonoscopy
•		Specified		

2101	Control Of Epistaxis By Anterior Nasal Packing	4524	Flexible Sigmoidoscopy
2102	Control Of Epistaxis By Posterior (and Anterior) Packing	4543	Endoscopic Destruction Of Other Lesion Or Tissue Of Large
2103	Control Of Epistaxis By Cauterization (and Packing)	4549	Other Destruction Of Lesion Of Large Intestine
2104	Control Of Epistaxis By Ligation Of Ethmoidal Arteries	480	Proctotomy
2105	Control Of Epistaxis By (transantral) Ligation Of The	4823	Rigid Proctosigmoidoscopy
2106	Control Of Epistaxis By Ligation Of The External Carotid	4921	Anoscopy
2107	Control Of Epistaxis By Excision Of Nasal Mucosa And Skin	4945	Ligation Of Hemorrhoids
2109	Control Of Epistaxis By Other Means	4995	Control Of (postoperative) Hemorrhage Of Anus
270	Drainage Of Face And Floor Of Mouth	540	Incision Of Abdominal Wall
287	Control Of Hemorrhage After Tonsillectomy And Adenoidectomy	5411	Exploratory Laparotomy
3402	Exploratory Thoracotomy	5412	Reopening Of Recent Laparotomy Site
3403	Reopening Of Recent Thoracotomy Site	5419	Other Laparotomy
3409	Other Incision Of Pleura	5421	Laparoscopy
341	Incision Of Mediastinum	5495	Incision Of Peritoneum
3421	Transpleural Thoracoscopy	5521	Nephroscopy
3639	Other Heart Revascularization	5522	Pyeloscopy
3699	Other Operations On Vessels Of Heart	5631	Ureteroscopy
370	Pericardiocentesis	5719	Other Cystotomy
3799	Other Operations On Heart And Pericardium	5731	Cystoscopy Through Artificial Stoma
3800	Incision Of Vessel Nos	5732	Other Cystoscopy
3801	Intracran Vessel Incis	5793	Control Of (postoperative Hemorrhage Of Bladder)
3802	Head/neck Ves Incis Nec	5822	Other Urethroscopy
3803	Upper Limb Vessel Incis	5909	Other Incision Of Perirenal Or Periureteral Tissue
3804	Incision Of Aorta	5919	Other Incision Of Perivesicle Tissue
3805	Thoracic Vessel Inc Nec	6081	Incision Of Periprostatic Tissue
3806	Abdomen Artery Incision	6094	Control Of (postoperative) Hemorrhage Of Prostate
3807	Abdominal Vein Incision	610	Incision And Drainage Of Scrotum And Tunica And Vaginalis
3808	Lower Limb Artery Incis	6372	Ligation Of Spermatic Cord

3809	Lower Limb Vein Incision	6601	Salpingotomy
3880	Other Surgical Occlusion Of Unspecified Site	680	Hysterotomy
3881	Other Surgical Occlusion Of Intracranial Vessels	6812	Hysteroscopy
3882	Other Surgical Occlusion Of Other Vessels Of Head And Neck	6824	Uterine Art Emb W Coils (begin 2011)
3883	Other Surgical Occlusion Of Upper Limb Vessels	6825	Uterine Art Emb W/o Coil (begin 2011)
3884	Other Surgical Occlusion Of Aorta, Abdominal	6998	Other Operations On Supporting Structures Of Uterus
3885	Other Surgical Occlusion Of Thoracic Vessel	7014	Other Vaginotomy
3886	Other Surgical Occlusion Of Abdominal Arteries	7109	Other Incision Of Vulva And Perineum
3887	Other Surgical Occlusion Of Vessels Abdominal Veins	7591	Evacuation Of Obstetrical Incisional Hematoma Of Perineum
3888	Other Surgical Occlusion Of Lower Limb Arteries	7592	Evacuation Of Other Hematoma Of Vulva Or Vagina
3889	Other Surgical Occlusion Of Lower Limb Veins	8010	Other Arthrotomy, Unspecified Site
3930	Suture Of Vessel Nos	8201	Exploration Of Tendon Sheath Of Hand
3931	Suture Of Artery	8202	Myotomy Of Hand
3932	Suture Of Vein	8204	Incision And Drainage Of Palmar Or Thenar Space
3941	Control Of Hemorrhage Following Vascular Surgery	8209	Other Incision Of Soft Tissue Of Hand
3952	Other Repair Of Aneurysm	8302	Myotomy
3953	Repair Of Arteriovenous Fistula	8309	Other Incision Of Soft Tissue
3972	Endovascular Repair Or Occlusion Of Head And Neck Vessels	850	Mastotomy
3975	Endovascular Embolization/occlusion Vessels Head/neck Using Bare Metal Coils	8604	Other Incision With Drainage Of Skin And Subcutaneous Tissue
3976	Endovascular Embolization/occlusion Vessels Head/neck Using Bioactive Coils	8609	Other Incision Of Skin And Subcutaneous Tissue
3979	Other Endovascular Repair (of Aneurysm) Of Other Vessels	9929	Injection Or Infusion Of Other Therapeutic Or Prophylactic

DENOMINATOR OVERALL

Elective surgical discharges, for patients ages 17 years and under, with any-listed ICD-9-CM procedure code for an operating room procedure. Elective surgical discharges are defined by specific MS-DRG codes with admission type recorded as elective (SID ATYPE=3).

<u>Appendix A - Operating Room Procedure Codes</u> <u>Appendix C - Surgical MS-DRGs</u>

Note: Stratum are mutually exclusive. Patients cannot qualify for more than one stratum.

DENOMINATOR OVERALL EXCLUSIONS

Exclude cases:

- with a principal ICD-9-CM diagnosis code (or secondary diagnosis present on admission) for perioperative hemorrhage or postoperative hematoma, among patients otherwise qualifying for numerator (see above)
- where the only operating room procedure is control of postoperative hemorrhage (see above) or drainage of hematoma (see above)
- where any procedure for control of postoperative hemorrhage (see above) or drainage of hematoma (see above) occurs before the first operating room procedure¹
- neonates with birth weight less than 500 grams (Birth Weight Category 1)
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

<u>Appendix I - Definitions of, Neonate, Newborn, Normal Newborn, and Outborn</u> Appendix L - Low Birth Weight Categories

¹ If day of procedure is not available in the input data file, the rate may be slightly lower than if the information were available.

DENOMINATOR HIGH RISK CATEGORY

Elective surgical discharges, for patients ages 17 years and under, with any-listed ICD-9-CM procedure code for an operating room procedure and either any-listed ICD-9-CM diagnosis codes for coagulopathy or any-listed ICD-9-CM procedure codes for extracorporeal membrane oxygenation (ECMO). Elective surgical discharges are defined by specific MS-DRG codes with admission type recorded as elective (SID ATYPE=3).

<u>Appendix A - Operating Room Procedure Codes</u> <u>Appendix C - Surgical MS-DRGs</u>

Coagulopathy diagnosis codes: (ACGOFD)

2860	Cong Factor Viii Diord	2871	Thrombocytopathy
2861	Cong Factor Ix Disorder	2873	Primary Thrombocytopenia
2862	Cong Factor Xi Disorder	28730	Prim Thrombocytopen Nos
2863	Cong Def Clot Factor Nec	28731	Immune Thrombocyt Purpra
2864	Von Willebrand's Disease	28732	Evans' Syndrome
2865	Circulating Anticoag Dis	28733	Cong/herid Thromb Purpra
28652	Acquired Hemophilia	28739	Prim Thrombocytopen Nec
28653	Antiphosopholipid Antibody With	2874	Second Thrombocytopenia
	Hemorrhagic Disorder		
28659	Other Other Hemorrhagic Disorder	28741	Posttransfusion Purpura
	Due To Intrinstic Circularting		
	Anticoagulants, Antibodies, Or		
	Inhibitors		
2866	Defibrination Syndrome	2875	Thrombocytopenia Nos
2867	Acq Coagul Factor Defic	2878	Hemorrhagic Cond Nec
2869	Coagulat Defect Nec Nos	2879	Hemorrhagic Cond Nos

Extracorporeal membrane oxygenation (ECMO) procedure codes: (ECMOP)

3965 Extracorporeal Membrane Oxygenation

DENOMINATOR HIGH RISK EXCLUSION

Exclude cases:

- among patients otherwise qualifying for numerator with a principal ICD-9-CM diagnosis code (or secondary diagnosis present on admission) for perioperative hemorrhage or postoperative hematoma (see above)
- where the only operating room procedure is control of perioperative hemorrhage (see above) or drainage of hematoma (see above)
- where the control of postoperative hematoma, drainage of hematoma occurs one day or more before the first OR procedure
- neonates with birth weight less than 500 grams (Birth Weight Category 1)
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

<u>Appendix I - Definitions of, Neonate, Newborn, Normal Newborn, and Outborn</u> Appendix L - Low Birth Weight Categories

DENOMINATOR LOW RISK CATEGORY

Elective surgical discharges, for patients ages 17 years and under, with any-listed ICD-9-CM procedure code for an operating room procedure without any-listed ICD-9-CM diagnosis codes for coagulopathy (see above) and without any-listed ICD-9-CM procedure codes for ECMO (see above). Elective surgical discharges are defined by specific MS-DRG codes with admission type recorded as elective (SID ATYPE=3).

Appendix A - Operating Room Procedure Codes
Appendix C - Surgical MS-DRGs

DENOMINATOR LOW RISK EXCLUSIONS

Exclude cases:

- with a principal ICD-9-CM diagnosis code (or secondary diagnosis present on admission) for perioperative hemorrhage or postoperative hematoma, among patients otherwise qualifying for numerator (see above)
- where the only operating room procedure is control of perioperative hemorrhage (see above) or drainage of hematoma (see above),
- where the control of postoperative hematoma or drainage of hematoma occurs one day or more before the first Operating Room procedure
- neonates with birth weight less than 500 grams (Birth Weight Category 1)
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

<u>Appendix I - Definitions of, Neonate, Newborn, Normal Newborn, and Outborn</u> Appendix L - Low Birth Weight Categories